



Indiana Department of Education

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TO: State Board of Education

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SUBJECT: Changes to Approved Course Titles and Descriptions for 2016-2017

To assure that Indiana provides students with the most current offerings to prepare for college and careers, the Department of Education annually updates and distributes the course titles and descriptions for the following school year. Following are the changes to Indiana's state approved course titles for 2016-2017, based on demand and feedback from Indiana's secondary education community, post-secondary/higher education, and business/industry partners along with recommendations from the Career and Technical Education field. These changes have been approved by Department of Education, the Statewide Advisory Committee for Career and Technical Education, and the State Board of Education.

Advanced Placement (AP) and International Baccalaureate (IB) Course Offerings

- *AP Computer Science Principles (4568 Non-Core)* offers a multidisciplinary approach to teaching the underlying principles of computation, introducing the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. Students use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum designed to broaden participation in computer science.

Administrative and Office Management

- *Administrative and Office Management (5268 Non-Core)* will replace the title *Advanced Business Management* to better reflect the content standards and skills that are achieved by this course and better align with industry needs and secondary/postsecondary pathways.

Aviation Maintenance I & II

- *Aviation Maintenance (5520 Non-Core)* will become *Aviation Maintenance I*. Currently there is only one Aviation Maintenance Course. The complexity of this industry requires the addition of more content and instruction.

- A newly developed *Aviation Maintenance II (5522 Non-Core)* will extend the content and skills gained in *Aviation Maintenance I*. The title change reflects this additional course.

Banking and Investment Capstone

- *Banking and Investment Capstone (5258 Non-Core)* will replace the title *Banking and Investment Careers* to better communicate the position of this course as the capstone course for the secondary course sequence in this pathway.

Biochemistry of Foods

- *Biochemistry of Foods (5344 Non-Core)* will replace *Chemistry of Foods* to better reflect the updated and more rigorous course standards and content of this course and to better align the course with the corresponding secondary/postsecondary course sequences.

College and Career Bridge: Ready

- *CCR Bridge: Math Ready (2514 Core)* will include and reinforce the Algebra 1, Geometry, Algebra 2 and Statistics skills necessary to be ready for entry-level college math. This course emphasizes understanding of math concepts rather than just memorizing procedures. *CCR Bridge: Math Ready* teaches the context behind the procedure: for example, why to use a certain formula or method to solve a problem. Students will build higher-order thinking skills in order to apply math skills, functions and concepts in various situations.
- *CCR Bridge: Literacy Ready (1014 Core)* is an innovative, dynamic course built to help students master the literacy skills needed for three core subject areas —English, social science and science. *CCR Bridge: Literacy Ready* consists of six units: two in history, two in English and two in science. Content of each of the disciplines is at the forefront of the curriculum while disciplinary literacy skills are emphasized through reading and writing assignments based on the content. The focus is on truly understanding how to read and interpret texts in the discipline on a college level.

Culinary Arts and Hospitality

- *Introduction to Culinary Arts and Hospitality (5438 Non-Core)* is the first course in the pathway sequence.
- *Culinary Arts and Hospitality I (5440 Non-Core)* will replace *Culinary Arts and Hospitality Management* to communicate the alignment of this course in the course sequence for these pathways.
- *Culinary Arts and Hospitality II: Culinary Arts (5346 Non-Core)* will replace *Advanced Culinary Arts* to clarify the proper sequencing of this specialty in the Culinary/Hospitality pathway.
- *Culinary Arts and Hospitality II: Hospitality Management (5458 Non-Core)* will replace *Advanced Hospitality Management* to clarify the proper sequencing of this specialty in the Culinary/Hospitality pathway.

Entrepreneurship and New Ventures Capstone

- *Entrepreneurship and New Ventures Capstone (5966 Non-Core)* will replace the title *Entrepreneurship and New Ventures* to better communicate the position of this course as the capstone course for the secondary course sequence in this pathway.

Industrial Automation and Robotics I & II

- *Industrial Automation and Robotics I (5610 Non-Core) & Industrial Automation and Robotics II (5612 Non-Core)* will replace *Automation and Robotics I & II*. This change is needed to communicate the industrial nature of this career preparation course, which is utilizing automation in an industrial or manufacturing setting, and distinguish it from the non-CTE robotics/robot-building activities that schools provide through robot clubs and after school activities. This change makes it clear that the CTE course is for career preparation for students in the industrial automation and robotics pathway as applied in industrial settings.

Industrial Technical Maintenance I & II

- *Industrial Technical Maintenance I (5686 Non-Core)* will replace *Industrial Repair and Maintenance* to better reflect the scope of knowledge and skills needed in this pathway and included in this course.
- *Industrial Technical Maintenance II (5688 Non-Core)*, the second level of the course, is reflective of the expanded learning needed due to advances in the industry and increasing complexity of the content, which warrant additional instruction.

Networking I & II

- *Networking I (5234 Non-Core)* will replace the title *Network Fundamentals* to align the format of this course sequence with the format of other Level I and Level II courses.
- *Networking II: Infrastructure (4588 Non-Core)* will replace *Infrastructure of the Internet* to better communicate the appropriate sequencing and the more advanced level of the course
- Likewise *Networking II: Servers (5257 Non-Core)* will replace *Servers and Security* to clarify sequencing of the Networking courses.

Work Based Learning Capstone courses

The work *Capstone* will be added to the existing *Work Based Learning* course titles to communicate the advanced, “capstone” nature of these WBL courses and reinforce the advanced nature of these Work Based Learning courses.

- *Work Based Learning Capstone, Multiple Pathways (5974 Non-Core)*
- *Work Based Learning Capstone, Advanced Manufacturing and Engineering (5975 Non-Core)*
- *Work Based Learning Capstone, Business and Marketing (5260 Non-Core)*
- *Work Based Learning Capstone, Family and Consumer Sciences (5480 Non-Core)*
- *Work Based Learning Capstone, Health Sciences (5207 Non-Core)*
- *Work Based Learning Capstone, Trade and Industry (5892 Non-Core)*